

CASE CAPACITY CALCULATIONS

*CAUTION**--CARTRIDGE CASE CAPACITY MAY VARY 5-10% BETWEEN BRANDS

CARTRIDGE TYPE = .30 CARBINE
 BULLET TYPE = .22/Sabot
 BULLET WT. = 55
 BULLET DIAMETER (IN) = .308
 OVERALL CARTRIDGE LENGTH (IN) = 1.7
 CASE LENGTH (IN) = 1.28
 FULL CASE CAPACITY (GR WATER) = 20
 BULLET LENGTH (IN) = .72
 BARREL LENGTH (IN) = 10

BULLET SEATING DEPTH (IN) = .3
 DISPLACED WATER (GR) = 5.641
 EFFECTIVE WATER CAPACITY OF CASE (GR) = 14.359
 EFFECTIVE BARREL LENGTH (IN) = 9.02

** LFD1 CARTRIDGE LOAD DEVELOPMENT ** 04-26-1993

CARTRIDGE DATA = .30 CARBINE
 CALIBER = .308 IN BULLET WEIGHT = 55 GR BARREL LENGTH = 9.02 IN
 CASE CAPACITY = 14.359 GR OF WATER (CALC) BULLET DIAM = .308 IN
 SECTIONAL DENSITY = .083 VOL. RATIO = 12.6
 CARTRIDGE TEMPERATURE = 70 DEG F
 POWDER CLASS: VERY FAST POWDERS
 POWDER TYPE: 2400, N-110, AA-#9
 CHARGE/BULLET WT = 0.209
 CALC. POWDER CHARGE = 11.5 GR LOAD DEN = 80 %
 EST. MUZZLE VELOCITY = 2300 FT/SEC
 EST. PEAK PRESSURE = 39500 PSI
 ALT POWDER TYPE:
 POWDER CLASS: ALTERNATE POWDER SELECTION NOT AVAILABLE
 *** FOR STARTING LOADS REDUCE CALC. POWDER CHARGE BY AT LEAST 10% ***

** ALTERNATE LOAD INFORMATION ** 04-26-1993

LOAD DENSITY %	CHARGE WT. GR	VELOCITY FPS	PRESSURE PSI
75	10.5	2200	34000
80	11.5	2300	38500
85	12.2	2400	43300 *
90	12.9	2600	48500 *
95	13.6	2700	53900 *
100	14.4	2900	60400 *

* - WARNING -- HIGH PRESSURE - REFERENCE ONLY!

Load data developed with "Load From A Disk I" software by Wayne Blackwell. Since the author has no control over components, equipment and methods used, no responsibility is implied or assumed for results obtained through its use. Data is for informational, non-commercial use only.

CASE CAPACITY CALCULATIONS

*CAUTION**--CARTRIDGE CASE CAPACITY MAY VARY 5-10% BETWEEN BRANDS

CARTRIDGE TYPE = .30 NERRETT
 BULLET TYPE = .22/Sabot
 BULLET WT. = 55
 BULLET DIAMETER (IN) = .308
 OVERALL CARTRIDGE LENGTH (IN) = 2.1
 CASE LENGTH (IN) = 1.604
 FULL CASE CAPACITY (GR WATER) = 35
 BULLET LENGTH (IN) = .72
 BARREL LENGTH (IN) = 14

BULLET SEATING DEPTH (IN) = .224
 DISPLACED WATER (GR) = 4.212
 EFFECTIVE WATER CAPACITY OF CASE (GR) = 30.788
 EFFECTIVE BARREL LENGTH (IN) = 12.62

** LFD1 CARTRIDGE LOAD DEVELOPMENT ** 04-26-1993

CARTRIDGE DATA = .30 NERRETT
 CALIBER = .308 IN BULLET WEIGHT = 55 GR BARREL LENGTH = 12.62 IN
 CASE CAPACITY = 30.788 GR OF WATER (CALC) BULLET DIAM = .308 IN
 SECTIONAL DENSITY = .083 VOL. RATIO = 8.6
 CARTRIDGE TEMPERATURE = 70 DEG F
 POWDER CLASS: VERY FAST POWDERS
 POWDER TYPE: 2400, N-110, AA-#9
 CHARGE/BULLET WT = 0.447
 CALC. POWDER CHARGE = 24.6 GR LOAD DEN = 79.9 %
 EST. MUZZLE VELOCITY = 3100 FT/SEC
 EST. PEAK PRESSURE = 39500 PSI
 ALT POWDER TYPE:
 POWDER CLASS: ALTERNATE POWDER SELECTION NOT AVAILABLE
 *** FOR STARTING LOADS REDUCE CALC. POWDER CHARGE BY AT LEAST 10% ***

** ALTERNATE LOAD INFORMATION ** 04-26-1993

LOAD DENSITY %	CHARGE WT. GR	VELOCITY FPS	PRESSURE PSI
75	21.1	2900	34800
80	24.6	3100	39500
85	26.2	3300	44800
90	27.7	3500	50100 *
95	29.2	3700	55700 *
100	30.8	3900	61900 *

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CASE CAPACITY CALCULATIONS

*CAUTION**--CARTRIDGE CASE CAPACITY MAY VARY 5-10% BETWEEN BRANDS

CARTRIDGE TYPE = .308 WIN
 BULLET TYPE = .22/Sabot
 BULLET WT. = 55
 BULLET DIAMETER (IN) = .308
 OVERALL CARTRIDGE LENGTH (IN) = 2.5
 CASE LENGTH (IN) = 2.005
 FULL CASE CAPACITY (GR WATER) = 56
 BULLET LENGTH (IN) = .72
 BARREL LENGTH (IN) = 22

BULLET SEATING DEPTH (IN) = .225
 DISPLACED WATER (GR) = 4.231
 EFFECTIVE WATER CAPACITY OF CASE (GR) = 51.769
 EFFECTIVE BARREL LENGTH (IN) = 20.22

** LFD1 CARTRIDGE LOAD DEVELOPMENT ** 04-26-1993

CARTRIDGE DATA = .308 WIN
 CALIBER = .308 IN BULLET WEIGHT = 55 GR BARREL LENGTH = 20.22 IN
 CASE CAPACITY = 51.769 GR OF WATER (CALC) BULLET DIAM = .308 IN
 SECTIONAL DENSITY = .083 VOL. RATIO = 8.2
 CARTRIDGE TEMPERATURE = 70 DEG F
 POWDER CLASS: FAST POWDERS
 POWDER TYPE: IMR-4198/RX7/S-4197 *CK MANUAL*
 CHARGE/BULLET WT = 0.753
 CALC. POWDER CHARGE = 41.4 GR LOAD DEN = 79.9 %
 EST. MUZZLE VELOCITY = 3800 FT/SEC
 EST. PEAK PRESSURE = 38900 PSI
 ALT POWDER TYPE:
 POWDER CLASS: ALTERNATE POWDER SELECTION NOT AVAILABLE
 *** FOR STARTING LOADS REDUCE CALC. POWDER CHARGE BY AT LEAST 10% ***

** ALTERNATE LOAD INFORMATION ** 04-26-1993

LOAD DENSITY %	CHARGE WT. GR	VELOCITY FPS	PRESSURE PSI
75	38.8	3600	34200
80	41.4	3800	38900
85	44.0	4000	43900 *
90	46.6	4300	49300 *
95	49.2	4500	54900 *
100	51.8	4800	60900 *

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CASE CAPACITY CALCULATIONS

*CAUTION**--CARTRIDGE CASE CAPACITY MAY VARY 5-10% BETWEEN BRANDS

CARTRIDGE TYPE = .30-06
 BULLET TYPE = .22/Sabot
 BULLET WT. = 55
 BULLET DIAMETER (IN) = .308
 OVERALL CARTRIDGE LENGTH (IN) = 2.9
 CASE LENGTH (IN) = 2.484
 FULL CASE CAPACITY (GR WATER) = 69
 BULLET LENGTH (IN) = .72
 BARREL LENGTH (IN) = 22

BULLET SEATING DEPTH (IN) = .304
 DISPLACED WATER (GR) = 5.717
 EFFECTIVE WATER CAPACITY OF CASE (GR) = 63.283
 EFFECTIVE BARREL LENGTH (IN) = 19.82

** LFD1 CARTRIDGE LOAD DEVELOPMENT ** 04-26-1993

CARTRIDGE DATA = .30-06
 CALIBER = .308 IN BULLET WEIGHT = 55 GR BARREL LENGTH = 19.82 IN
 CASE CAPACITY = 63.283 GR OF WATER (CALC) BULLET DIAM = .308 IN
 SECTIONAL DENSITY = .083 VOL. RATIO = 6.8
 CARTRIDGE TEMPERATURE = 70 DEG F
 POWDER CLASS: MEDIUM FAST POWDERS
 POWDER TYPE: IMR-3031, RX11, H-335, AA-2230, S-3032, WW-748, N-201
 CHARGE/BULLET WT = 1.038
 CALC. POWDER CHARGE = 57.1 GR LOAD DEN = 90.2 %
 EST. MUZZLE VELOCITY = 4200 FT/SEC
 EST. PEAK PRESSURE = 44400 PSI
 ALT POWDER TYPE:
 POWDER CLASS: ALTERNATE POWDER SELECTION NOT AVAILABLE
 *** FOR STARTING LOADS REDUCE CALC. POWDER CHARGE BY AT LEAST 10% ***

** ALTERNATE LOAD INFORMATION ** 04-26-1993

LOAD DENSITY %	CHARGE WT. GR	VELOCITY FPS	PRESSURE PSI
75	47.5	3500	30700
80	50.6	3700	34900
85	53.8	4000	39400
90	57.0	4200	44200 *
95	60.1	4400	49200 *
100	63.3	4700	54600 *

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